## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/562,478	KOSUTIC ET AL.	
Examiner	Art Unit	
SAMUEL LIU	1656	

The MAILING DATE of this communication appears	on the cover sheet with the co	orrespondence addr	ess
THE REPLY FILED 5/9/11 FAILS TO PLACE THIS APPLIC	ATION IN CONDITION FOR	ALLOWANCE.	
<ol> <li>\( \)\text{The reply was filed after a final rejection, but prior to or on the application, applicant must timely file one of the following repl application in condition for allowance; (2) a Notice of Appeal (or Continued Examination (RCE) in compliance with 37 CFR periods:</li> <li>\( \)\text{\text{Z}}\) The period for reply expires \( \frac{\mathcal{E}}{2} \) months from the mailing date of the periods:</li> </ol>	ies: (1) an amendment, affidavit, (with appeal fee) in compliance w 1.114. The reply must be filed w he final rejection.	or other evidence, whith 37 CFR 41.31; or other one of the follow	hich places the (3) a Request ing time
<ul> <li>The period for reply expires on: (1) the mailing date of this Advis no event, however, will the statutory period for reply expire later Examiner Note: If box 1 is checked, check either box (a) or (b).</li> </ul>	than SIX MONTHS from the mailing	date of the final rejection	1.
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).	.,		
Extensions of time may be obtained under 37 CFR 1.136(a). The date on n have been filed is the date for purposes of determining the period of extens under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the short set forth in (b) above, if checked. Any reply received by the Office later than may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ion and the corresponding amount of lened statutory period for reply origina	f the fee. The appropriatally set in the final Office	te extension fee action; or (2) as
The Notice of Appeal was filed on A brief in complian filling the Notice of Appeal (37 CFR 41.37(a)), or any extension Notice of Appeal has been filed, any reply must be filed within AMENDMENTS.	n thereof (37 CFR 41.37(e)), to a	avoid dismissal of the	
3. The proposed amendment(s) filed after a final rejection, but   (a) They raise new issues that would require further consider.			cause
(b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better fappeal; and/or			e issues for
(d) They present additional claims without canceling a corn		ted claims.	
NOTE: <u>See Continuation Sheet.</u> (See 37 CFR 1.116 a			
4. The amendments are not in compliance with 37 CFR 1.121.	See attached Notice of Non-Com	ipliant Amendment (F	TOL-324).
<ol> <li>Applicant's reply has overcome the following rejection(s):</li> <li>Newly proposed or amended claim(s) would be allowed non-allowable claim(s).</li> </ol>	able if submitted in a separate, tir	mely filed amendmen	t canceling the
7.  For purposes of appeal, the proposed amendment(s): a)  how the new or amended claims would be rejected is provide  The status of the claim(s) is (or will be) as follows:  Claim(s) allowed: none.  Claim(s) objected to: none.  Claim(s) rejected: 1:3.  Claim(s) withdrawn from consideration: none.		be entered and an ex	planation of
AFFIDAVIT OR OTHER EVIDENCE			
The affidavit or other evidence filed after a final action, but be because applicant failed to provide a showing of good and su was not earlier presented. See 37 CFR 1.116(e).			
<ol> <li>The affidavit or other evidence filed after the date of filing a N entered because the affidavit or other evidence failed to over showing a good and sufficient reasons why it is necessary an</li> </ol>	come all rejections under appeal	and/or appellant fails	to provide a
10. The affidavit or other evidence is entered. An explanation of REQUEST FOR RECONSIDERATION/OTHER	the status of the claims after ent	try is below or attache	d.
<ol> <li>The request for reconsideration has been considered but do See Continuation Sheet.</li> </ol>	es NOT place the application in	eondition for allowane	e because:
12. Note the attached Information Disclosure Statement(s). (PT	O/SB/08) Paper No(s). 12/28/10		
<ol> <li>Other: <u>See Continuation Sheet</u>.</li> </ol>			
	/ANAND II DESAI/		

U.S. Patent and Trademark Office

Primary Examiner, Art Unit 1656

Continuation of 3. NOTE: The instant claims 1, 2 and 3 contain the new matter, i.e., the limitation "wherein the effective amount is about 20 µg/lg at least once a day", which as amended into the claims on 59/11, is not supported in the specification as originally filled. Although "20 µg/lg" dosage for oral administration has been describe in instant specification at page 100, lines 13-14 (where is only place the specification describe said limitation by setting forth "20 µg/lg wice a day (morning and aftermoon) for 10 day he breadth of said "at least once a day" is broader than the "twice a day". Thus, said limitation broadens the scope of instant invention, and therefore, it is the new matter.

Continuation of 11, does NOT place the application in condition for allowance because: The 102(e) rejection of claims 1-3 are maintained because the new limitation "the effective amount is about 20 µg/kg at least once a day" set forth in said claims 1-3 has not been entered due to the above-discussed new matter issue.

The 103(a) rejections of claim 1, 2 or 3 by Russo A. F. Komarova et al. and Lee et al. are maintained because the new limitation "the effective amount is about 20 µg/kg at least once a day" set forth in claims 1, 2, or 3 has not been entered due to the above-discussed new matter issue.

The 103(a) rejection of claim 1 by Lee et al. Is maintained. The response filed 5/9/11 argues that Example 4 of the lee reference does not teach a di-conjugate of salmon calcitionin (sCT) with PEG (see page 4). The response asserts that the Lee et al. teach away from instant 'orally administering' the disclosed compound, the Lee 'teachings 'the nasal transmucosal route has advantage over the oral route' and nasal transmucosal eloutery of peptides alone is significantly improved in adsorption efficiency compared with he oral administration' discourages one of ordinary skill in the art to use of the oral route (See pages 5 and 6). Thus, the response infers that a prima facie case of obviousness has not been established by the Office, and therefore request withdrawal of the rejection.

The applicants' arguments are not persuasive because, at ool.7, Example 4, Lee et al. teach "PEG-sCT conjugates prepared in Examples 3 included in-PEG-sCT" (see ool.9, lines 12-15), i.e. the di-conjugate contain PEG moleites at Lys1 and Lys1 residues of SCT polypeptide. The oral administration route is considered to be an alternative way for delivering sCT therapeutic. This is because the PEG-ylated sCT traught by Lee et al. has increased in-vivo half iffe span and solubility and has improved in protein from protease degradation (col.3, lines 16-19, and col.4, lines 8-11), and because Lee et al. have suggested that biologically stable peptide is suitable for oral administration (see col.7, lines 1-4). Furthermore, Lee et al. have taught possibility of modifying the current isclosure or designing other embodiments for carrying out the same purpose of the present invention (col.12, lines 44-49), wherein said "other embodiment" refers to other administration route discussed at col. 1, lines 43-48. Thus, it would have been orbivous to try an administration route discussed at col. 1, lines 43-48. Thus, it would have been orbivous to try an administration route discussed at col. 1, lines 43-49. Where the nasal delivery, e.g., oral transmucosal delivery (which is convenient than nasal administration route) of the PEGylated sCT for treating pain in a patient.

Contrary to the response' assertion that liver metabolism is a hindrance to use of the oral administration (page 6, 1st paragraph, the response), the relative art reaches that PEGylated protein drugs have little toxicity, and long term PEG targeted to organs such as liver leave the body largely unchanged (see p.142, 3rd paragraph, Webster et al. (2009) PEGylated protein Drugs: Basic Science and Clinical applications, Ed. F.M. Veronese, Birkhauser Verlag, Switzerland, pages 127-146). This provided evidence that oral administration still is suitable for routing therapeutic use.

Thus, the 103 rejection is proper and maintained.

Continuation of 13, Other: The references cited in the IDS filed 12/28/10 have been considered by Examiner.